

1980 COMMERCIAL VEGETABLE

Variety Trial Report - Cauliflower

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Cauliflower trials were conducted in Minnesota at five locations during the 1980 growing season: Becker, Grand Rapids, Waseca, Anoka County Peat Site, and the Horticulture Research Center in Excelsior. Bordered observational and replicated studies (three or four reps) were conducted using the varieties listed below. Plots consisted of a single row 15 feet long, spaced 30 or 36 inches between rows and 18 inches between plants. The entire plot was used for data collection. Individual researchers were responsible for providing cultural practices (weed, insect, and disease control and fertilization) that simulate standard commercial conditions in their locations.

Ratings are judgments of individual researchers and should be used only to compare varieties within a location. Yields should be used only to compare varieties, since commercial yields can be expected to be somewhat different.

CAULIFLOWER VARIETIES TESTED

Variety	Source
Alert	Stokes
Alpha Marva Record	Bejo
Delira	Stokes
Early Snowball A	Ball
Extra Early Snowball	Stokes
Formana	Bejo
Imperial 10-6	Harris
Lecerf	Bejo
Markanta	Bejo
Master Osen	Keystone
Olympus	Asgrow
Raket	Stokes
Sami	Ohlsens Enke
Self Blanche	Northrup King
Snowball Y	Harris
Snowball Y Imp.	Northrup King
Snowball 23	Agway
Snowball 42	Ferry Morse
Snowball 76	Ferry Morse
Snowball 99	Agway
Snowflower	Asgrow
Strong Osen	Keystone
T-2	Dessert
T-4	Dessert
White Contessa	Twilley
White Summer	Stokes
White Top	Stokes
Abuntia	Thompson & Morgan
Early Dominant	Vesey
Dominant	Vesey
Starlight	Twilley
Self Wrap	Thompson & Morgan
Snow Crown	Takii
Whitney	Dessert
Snowball #16	Northrup King
Super Snowball	Northrup King
Stokes Early	
Abundance	Stokes
Snow Diana	Takii

TABLE HEADING INFORMATION

First Harvest — transplanting in most areas was end of May - first part of June.

CURD CLR — 1-4 color rating (1 = white, 4 = brownish)

CURD DEN — 1-3 density rating (1 = solid, 3 = loose)

CURD WD — distance across top of curd (cm)

CURD LGTH — length from top of curd to first expanding leaf (cm)

CURD TEX — 1-3 texture rating (1 = fine, 3 = coarse)

CURD LF — 1-4 rating of leaf penetration of curd (1 = none, 4 = heavy)

CURD HOL — hollow stem (1 = yes, 2 = no)

PLANT HT and WD — height & width at maturity (cm)

HAR — number of harvests (curds were harvested as they matured)

Overall Rating — 1-9 rating (1 = least desirable, 9 = most desirable)

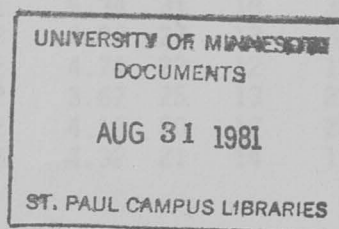
For further information call:

612-373-1102 for results from Becker (Sand Plain Experiment Station) and Excelsior (Horticulture Research Center)

218-327-1790 for results from Grand Rapids (North Central Experiment Station)

507-835-3620 for results from Waseca (Southern Experiment Station)

612-755-1280 for results from Anoka County Peat (Anoka County Extension Office)



CAULIFLOWER—1980 TRIALS

Location—Becker; Planted 4/25; Transplanted 5/31

Variety	1st Harvest	REPLICATED TRIALS										PLANT		# HAR	Overall Rating
		YIELD (1000 lb/A)		CURD CHARACTERISTICS											
		Early	Total	CLR	DEN	WD	LGTH	TXT	LF	HOL	HT	WD			
Extra Early Snowball	8/11	19.97	22.92	1.8	1.0	20.3	10.5	1.5	1.5	2	65	94	1.5	7.8	
Olympus	8/21	6.66	13.55	1.8	1.0	14.5	12.8	1.8	1.3	1	65	91	2.8	7.0	
Formana	8/18	3.27	13.48	2.3	1.0	16.5	11.8	1.0	1.3	2	63	89	2.5	7.0	
Alpha Marva															
Record	8/11	10.75	13.41	2.0	1.0	18.8	9.0	1.0	1.8	2	63	94	2.0	7.5	
Sami	8/18	4.50	13.41	2.0	1.3	17.5	11.3	1.8	1.3	2	65	91	3.0	7.0	
Delira	8/21	6.37	12.73	1.5	1.3	14.3	8.8	2.0	1.0	2	60	88	1.8	7.8	
Alert	8/11	11.01	11.71	2.0	1.0	21.5	10.8	1.5	2.5	2	63	91	1.3	7.3	
Snowball Y Imp.	8/21	5.08	11.16	1.8	1.3	16.8	10.5	2.8	1.8	1	64	84	2.8	6.5	
Snowflower	8/18	1.74	9.44	1.5	.5	13.5	9.5	.8	2.3	1	66	85	3.3	6.0	
Lecerf	8/18	3.44	7.72	3.3	1.5	16.3	11.5	1.5	4.0	2	59	81	2.3	2.3	
Self Blanche	8/21	2.32	7.07	1.3	.5	8.5	6.0	.8	.5	2	60	85	1.5	7.5	

OBSERVATIONAL TRIALS

T-4	8/11	5.81	17.91	2	1	22	10	1	3	2	70	95	2	7	
Snowball 99	8/18	7.26	13.84	1	1	22	12	2	3	1	50	70	3	6	
Raket	8/18	7.74	13.65	1	1	17	12	1	2	2	60	90	4	7	
Imperial 10-6	8/21	7.16	12.29	3	1	13	12	2	1	1	65	95	3	7	
Snowball 42	8/21	7.16	12.20	2	1	18	12	2	2	1	50	75	2	6	
Snowball 23	8/18	.97	11.91	1	1	18	12	1	1	1	70	75	3	6	
Strong Osen	8/12	3.78	11.52	1	1	17	13	1	1	2	65	90	2	9	
Snowball 76	8/21	4.07	10.84	2	1	13	10	2	1	1	60	85	3	7	
White Top	8/21	.97	10.75	3	1	17	8	1	1	2	60	85	3	8	
White Summer	8/21	6.97	10.07	2	1	17	9	1	1	2	65	90	3	8	
Master Osen	8/11	7.94	9.58	2	1	21	11	1	2	1	65	90	3	7	
Early Snowball															
A	8/11	6.68	8.71	1	1	18	10	1	1	2	68	100	2	9	
White Contessa	7/22	6.00	6.97	2	1	14	8	2	1	2	42	52	2	5	
Snowball Y	8/21	5.03	6.39	3	1	15	8	2	1	1	65	85	2	6	

CAULIFLOWER—1980 TRIALS

Location—Grand Rapids; Planted 4/28; Transplanted 5/29

Variety	1st Harvest	REPLICATED TRIALS												Overall Rating	
		YIELD		CURD CHARACTERISTICS								PLANT			# HAR
		(1000 lb/A)													
		Early	Total	CLR	AV. WT.	WD	LGTH	TXT	LF	HOL	HT	WD			
Early Abundance	7/19	2.37	10.52	2.0	1.54	15.3	7.8	1.5	2.0	2	53	74	4.2	6.3	
Snowcrown	7/22	2.71	17.04	2.0	2.45	16.3	8.3	1.7	1.3	1.7	56	91	4.0	7.7	
Super Snowball	7/27	2.76	21.79	2.0	2.81	20.0	9.8	2.5	2.0	1.8	67	105	4.8	6.5	
Snowball 16	8/1	2.81	28.11	1.5	4.24	24.0	10.0	1.3	2.5	1	77	108	4.8	6.5	
Self Blanche	8/5	4.19	36.06	2.0	4.81	23.3	11.3	1.7	2.0	2	62	99	5.2	7.7	
Olympus	8/10	4.50	21.97	1.7	4.35	20.7	10.0	2.3	2.3	1.3	73	104	3.5	6.3	
Snow Diana	8/12	8.98	24.81	2.5	4.01	23.0	12.3	2.5	2.5	1	69	113	3.8	7.0	
Snowflower	8/18	3.61	30.73	2.5	5.63	22.0	14.3	2.8	3.3	1	73	101	3.5	5.3	
Snowball 76	8/21	4.43	18.66	1.8	4.77	24.7	11.3	2.7	3.3	1	79	96	2.2	5.7	
Snowball Y	8/26	5.08	17.33	2.3	4.46	25.0	10.5	2.3	2.5	1.3	74	94	2.8	6.0	

OBSERVATIONAL TRIALS

Alpha Marva														
Record	7/18	1.45	21.84	3	2.82	17	8	1	2	2	43	57	5	7
Early Dominant	7/18	1.36	13.01	3	1.68	20	8	2	2	2	66	88	5	5
Abuntia	7/18	5.91	9.58	2	1.65	16	8	3	3	2	-	-	3	6
White Contessa	7/18	9.29	9.29	2	1.20	15	8	3	1	2	55	82	1	5
Raket	7/25	2.32	17.91	2	2.31	18	13	2	2	2	49	85	5	8
Early Snowball														
A	7/25	1.74	14.91	3	2.57	18	6	2	2	2	62	110	3	5
Extra Early														
Snowball	7/25	1.94	12.49	3	2.15	19	11	1	3	2	37	55	2	7
Alert	7/25	5.61	9.10	2	1.34	16	7	1	2	2	-	-	3	7
Snowball 42	8/1	2.23	42.01	2	5.42	24	16	2	3	4	78	100	5	6
Snowball 99	8/1	4.74	29.23	2	5.03	21	9	2	3	1	68	114	4	6
Snowball 23	8/1	1.65	28.46	2	4.20	18	9	1	2	1	71	94	5	7
Dominant	8/1	1.36	20.39	1	2.63	23	12	2	1	1	67	90	4	6
Starlight	8/1	1.45	19.17	2	3.30	24	13	3	1	1	70	84	4	6
White Summer	8/1	1.65	14.04	2	3.62	21	16	1	1	1	68	101	4	8
Master Osen	8/1	4.74	11.04	-	2.28	-	-	-	-	-	82	106	4	-
White Top	8/5	3.19	32.96	1	4.26	26	14	3	3	1	58	118	5	6
T-4	8/5	2.71	17.90	4	2.31	21	11	2	2	2	56	88	5	5
Markanta	8/5	4.07	4.07	-	2.10	-	-	-	-	-	92	118	1	-
Lecerf	8/8	2.90	27.79	3	3.59	25	13	3	4	1	68	89	5	5
Delira	8/8	3.10	37.17	2	4.80	25	14	1	2	2	50	82	5	7
Snowball Y Imp.	8/11	4.45	36.56	3	4.72	23	11	3	2	1	85	111	5	5
Sami	8/11	5.32	36.20	1	5.34	31	18	3	1	2	67	101	5	6
Formana	8/11	7.84	24.88	3	4.28	27	13	3	1	2	77	113	3	7
Imperial 10-6	8/11	9.58	22.94	2	4.74	22	12	1	2	1	70	106	3	7
Strong Osen	8/11	7.74	21.30	2	3.67	25	13	2	2	1	69	90	4	7
Self Wrap	8/11	1.94	15.98	2	4.12	20	12	2	2	1	71	121	2	8
Whitney	8/14	6.29	20.91	3	4.32	21	14	1	2	2	68	92	4	7

CAULIFLOWER—1980 TRIALS

Location—Waseca; Planted 4/25; Transplanted 6/5

Variety	1st Harvest	REPLICATED TRIALS											Overall Rating		
		YIELD (1000 lb/A)		CURD CHARACTERISTICS								PLANT		# HAR	
		Early	Total	CLR	DEN	WD	LGTH	TXT	LF	HOL	HT	WD			
Olympus	8/1	4.25	13.97	2.0	1.0	16.0	8.8	1.3	1.5	2	74	90	2.8	7.3	
Lecerf	8/4	.87	13.80	2.3	2.0	16.5	11.3	2.8	2.5	2	71	90	3.3	4.5	
Alpha Marva															
Record	8/4	1.63	13.18	2.8	1.3	18.8	10.0	1.8	2.8	2	59	84	3.8	4.8	
Delira	8/25	4.52	12.81	2.5	1.8	15.3	9.0	2.5	1.3	2	70	95	2.5	7.3	
Snowflower	8/18	2.89	10.16	2.0	1.0	17.0	10.8	1.3	1.5	2	73	101	2.5	7.8	
Extra Early															
Snowball	7/25	1.63	9.89	2.3	1.0	17.0	9.5	1.0	1.5	2	61	86	3.8	7.0	
Snowball Y Imp.	8/8	3.34	9.37	2.0	1.0	17.0	8.6	1.3	1.0	1.5	80	94	2.5	4.0	
Formana	8/25	2.57	6.13	2.0	3.0	17.5	13.0	2.5	2.5	1.5	73	100	1.5	4.0	
Alert	8/4	1.63	5.34	2.0	1.3	17.0	9.5	1.8	1.5	2	56	90	2.8	6.5	
Sami	9/4	2.84	2.84	2.0	2.0	12.0	7.0	2.0	1.0	2	65	103	1	6.0	
Self Blanche	9/17	1.98	1.98								65	85	1		

OBSERVATIONAL TRIALS														
T-4	8/4	7.12	24.13	3	1	13	8	2	3	2	65	90	4	3
White Contessa	7/17	4.45	16.32	2	1	17	10	1	1	2	45	75	3	7
Imperial 10-6	8/25	7.02	16.02	2	1	18	13	2	2	1	75	85	3	6
Snowball 99	8/18	5.34	15.92	1	1	22	12	1	3	1	75	85	3	7
Snowball 23	8/25	3.46	15.33	1	1	15	10	1	1	2	70	95	3	7
Early Snowball														
A	8/12	1.48	10.58	4	1	19	10	2	1	2	65	85	4	5
Master Osena	8/8	1.29	9.00	4	2	16	10	3	2	2	70	80	3	3
White Summer	8/25	1.78	8.90	2	1	15	9	1	2	2	65	75	3	6
Snowball Y	8/25	1.48	7.91	2	1	14	8	2	2	1	80	85	3	7
Strong Osena	8/25	3.26	8.21	1	2	17	10	2	2	1	70	95	2	5
Raket	9/4	2.28	7.62	1	1	12	5	2	1	2	70	80	2	8
White Top	8/25	1.09	6.53								50	85	2	
Snowball 42	8/25	1.29	3.86	1	1	10	5	1	1	2	65	75	3	6
Snowball 76	9/4	1.48	1.48	1	2	15	8	1	1	2	80	80	1	7

CAULIFLOWER--1980 TRIALS

Location--Anoka County Peat Site; Planted 4/25; Transplanted 6/3

REPLICATED TRIALS

Variety	1st Harvest	YIELD (1000 lb/A)		CURD CHARACTERISTICS							PLANT		# HAR	Overall Rating
		Early	Total	CLR	DEN	WD	LGTH	TXT	LF	HOL	HT	WD		
Olympus	8/20	10.89	18.03	2.0	1.3	23.5	5.3	2.0	1.8	1	68	87	1.8	5.5
Lecerf	8/11	12.61	14.16	2.3	2.8	22.8	5.3	2.8	3.5	1	59	96	1.3	2.8
Delira	8/4	7.55	13.00	2.0	1.8	21.0	4.3	2.0	2.0	2	58	83	2.3	6.0
Master Osen	8/11	5.63	11.38	1.8	1.8	17.6	4.4	1.6	1.8	2	61	98	2.0	5.0
Sami	8/20	6.66	11.13	2.3	1.5	22.3	8.8	1.5	1.0	2	59	100	1.8	6.0
Self Blanche	8/20	7.36	10.67	1.3	1.0	19.8	8.0	1.0	1.5	2	60	88	1.5	7.3
Alpha Marva														
Record	8/4	9.29	10.62	2.0	2.0	18.8	18.8	2.3	1.3	1	63	101	1.5	3.5
Formana	8/11	2.61	10.45	2.3	1.0	16.3	6.0	1.5	1.0	2	63	104	2.8	7.0
Extra Early														
Snowball	7/29	5.13	8.95	2.3	2.0	14.8	11.3	1.5	2.0	1	61	100	1.5	7.0
Snowflower	8/20	3.95	4.91	2.3	1.0	20.0	4.5	1.5	2.3	1	66	86	1.3	6.0
Markanta	8/21	1.07	1.07	1.5	1.5	11.3	2.3	1.5	1.3	2	75	107	.5	2.5

OBSERVATIONAL TRIALS

Snowball 99	8/4	7.07	24.50	3	3	21	4	3	2	1	65	100	2	4
Strong Osen	8/18	6.78	18.39	3	2	27	4	3	2	1	55	110	2	2
Raket	8/11	5.03	17.62	1	1	23	5	1	1	2	72	110	2	9
Snowball 76	8/11	4.65	15.29	2	1	22	6	1	2	1	60	85	2	6
Early Snowball														
A	8/4	13.07	13.07	3	2	18	7	3	2	2	60	110	1	4
T-4	8/4	11.71	11.71	1	3	19	3	3	4	1	65	90	1	5
Snowball 42	8/21	3.87	11.62	3	1	21	5	2	2	1	72	90	2	6
White Contessa	7/29	9.97	10.94	3	2	20	13	2	1	2	31	100	2	6
Snowball Y	8/21	10.07	10.07	2	3	10	71	2	3	4	65	95	1	7
Snowball 23	8/11	10.07	10.07	2	1	22	6	1	1	1	65	85	1	8
Imperial 10-6	8/11	5.13	8.03	1	1	18	5	1	2	1	65	110	2	7



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CAULIFLOWER--1980 TRIALS**Location—Excelsior (Horticultural Research Center) Planted 4/25; Transplanted 6/10**

Variety	1st Harvest	OBSERVATIONAL TRIALS												Overall Rating	
		YIELD		CURD CHARACTERISTICS								PLANT			# HAR
		(1000 lb/A)		CLR	DEN	WD	LGTH	TXT	LF	HOL	HT	WD			
		Early	Total												
Imperial 10-6	8/11	.97	24.85	2	3	20	11	2	2	1	45	58	4	3	
T-4	8/11	8.09	24.55	2	3	18	8	2	2	1	48	65	4	3	
Snowball Y	9/16	2.92	22.02	2	1	20	11	2	1	2	71	73	3	8	
Delira	9/10	5.36	21.63	3	1	28	13	3	1	2	79	62	4	9	
Snowball 99	8/14	1.85	19.49	2	2	14	8	1	2	1	55	64	4	7	
Raket	9/2	.97	19.40	2	1	18	9	1	1	2	56	41	4	7	
Extra Early															
Snowball	8/8	13.64	18.12	2	2	24	7	2	1	2	43	42	4	7	
Snowball 23	9/12	3.90	15.20	1	1	15	6	2	1	2	69	73	4	7	
White Top	9/10	1.75	13.64	1	2	20	10	2	1	2	66	68	4	6	
Strong Osen	9/12	1.85	13.15	1	1	17	7	2	1	2	57	69	4	8	
Early Snowball															
A	8/4	1.17	12.57	2	2	19	3	3	1	2	74	82	4	6	
White Summer	8/26	1.46	10.52	1	1	12	10	3	1	2	60	56	4	6	
Self Blanche	9/16	3.70	9.65	2	2	15	8	3	1	2	72	62	3	6	
Formana	8/19	1.17	8.96	1	2	17	11	2	1	2	48	65	4	7	
Alpha Marva															
Record	9/16	2.05	8.16	2	2	18	6	1	1	2	49	51	4	4	
Snowball Y Imp.	9/10	2.44	7.99	2	1	19	10	1	1	2	75	65	3	7	
Master Osen	8/11	.68	7.80	2	3	19	15	3	1	2	69	64	4	4	
Snowball 76	9/16	3.90	7.60	1	2	20	8	2	1	2	73	75	2	7	
Sami	9/23	4.09	6.92	2	2	20	11	2	1	2	81	82	2	7	
Lecerf	9/10	.88	6.43	2	3	16	7	3	4	2	59	52	4	1	
White Contessa	7/22	3.12	3.90	2	1	14	8	2	1	2	35	71	2	5	
Snowball 42	10/6	1.17	1.17	1	1	17	9	1	1	2	68	65	1	5	

(No data for Alert, Markanta, Olympus, Snowflower, 7-2)

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